

PTO/SB/21 (6-98)

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<b>TRANSMITTAL FORM</b>  (to be used for all correspondence after initial filing)	Application Number	09/801,194
	Filing Date	03/08/01
	First Named Inventor	Magnussen et al
	Group Art Unit	Unknown
	Examiner Name	Unknown
Total Number of Pages in This Submission	Attorney Docket Number	ELLIP-002A

ENCLOSURES (check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input checked="" type="checkbox"/> Charge Any Additional Fee Required, to Deposit Account No. 19-4330 <input type="checkbox"/> Amendment/Response <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers (for an Application) <input type="checkbox"/> Formal Drawing(s) (36 pages) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition Routing Slip (PTO/SB/69 and Accompanying Petition) <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation, Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Small Entity Statement <input type="checkbox"/> Request for Refund	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input type="checkbox"/> Additional Enclosure(s) (please identify below): Specification and Claims (21 pages)
REMARKS:		
SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT		
Firm or Individual Name	Stetina Brunda Garred & Brucker - Lowell Anderson	
Signature	<i>Lowell Anderson</i>	
Date	09/19/01	

CERTIFICATE OF MAILING			
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† SEND TO: Assistant Commissioner for Patents, Washington, D.C. 20231

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1. Transmittal Form;
2. Information Disclosure Statement (3 pages);
3. Form PTO-1449 (modified);
4. References (23 patents);
5. return postcard

Case: ELLIP-002A



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Magnussen et al

Serial No.: 09/801,194

Filed: 03/08/01

For: VIBRATORY MOTOR AND  
METHOD OF MAKING AND  
USING SAME

Art Unit: Unknown

Examiner: Unknown

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INFORMATION DISCLOSURE STATEMENT  
PURSUANT TO 37 C.F.R. SECTION 1.97

Assistant Commissioner for Patents  
Washington, D.C. 20231

Dear Sir/Madam:

Pursuant to 37 C.F.R. § 1.97, the following Information Disclosure Statement is submitted as listed on form PTO/SB/08 enclosed herewith in duplicate. Copies of all disclosure documents are attached hereto for the Examiner's review.

No representation is made that the references disclosed herein legally constitute prior art, or that more relevant references are not available. The disclosure documents enclosed herewith and listed on the attached form (PTO/SB/08) are printed in the English language and/or accompanied by an Abstract published in the English language, or a comments are provided below.

DE 3309 239 discloses a piezoelectric motor with two resonators each having a separate resonant frequency defined by the dimensions of the respective resonator. The frequencies are sufficiently close to produce a mechanical phase shift in the resonators so that no electric difference of the input signal is necessary.

EP 0 231 940 AP shows a piezoelectric drive used as a motor (Fig. 1) or mist generator (Fig.

2), and uses two masses (2 & 3) connected by a tube shaped part 6 that encloses the piezoceramic body 4.

EP 0643 427 has claims written in English. Claim 1 refers to an electric motor with at least one pair of transducers (1, 1', 2', 101, 102) each comprising a vibrating element. These transducers are located collinearly in order to generate longitudinal vibrations in the direction of the axis of alignment, in permanent contact via one of their ends with a support structure (70, 15, 24, 38, 39, 46, 51, 60, 66, 104, 107) and via the other one of their ends with an elastic coupling means (3, 3', 103) to which the vibrations of the two transducers are applied. The transducers are excited so that their vibrating elements vibrate at one and the same frequency, depending on the alignment of the transducers, but with a phase shift of  $90^\circ$ , and at least one element (4, 10, 11, 25, 36, 37, 49, 50, 62, 63, 106) frictionally driven by the coupling means whose zone of contact with the driven element is given a circular or elliptical movement, motor wherein the coupling means is an elastic component in contact at two opposed points with the transducers, and exhibiting symmetry relative to a plane perpendicular to the line of action of the transducers and a section, along a plane containing this line of action, of at least approximately elliptical, particularly circular or semi-elliptical shapes.

DE 25 30 045 describes a motor with a stator and a rotor where the stator has at least one piezoelectric resonator that has a friction contact to the rotor. The resonator has at least one piezoelectric that is attached to the parallel surfaces of the resonator. The piezoelectric element is connected to an AC-voltage source. The polarization of the piezoelectric element is perpendicular to the electrode surface. The dimension of the resonator are designed to have a longitudinal resonance that are close to the frequency of the AC voltage. The resonator is in driving communication with the rotor, so that the contact to the rotor causes bending or transversal vibrations that together drive the rotor.

DE 39 20 726 describes an ultrasonic oscillator 1 with piezoelectric elements 2. A resonator 4 is connected to the piezoelectric elements 2. The resonator has one or several slanted surfaces 9 wherein at the front end of resonator 4 elliptic oscillations are generated. The ultrasonic oscillator 1 can be used as a driver of a motor 20 that has a rotor 22.

DE 38 33 342 describes a piezoelectric motor providing two selectable driving directions and a holding mode, comprising one driving element (2, 33, 133, 233) that generates mutually orthogonal

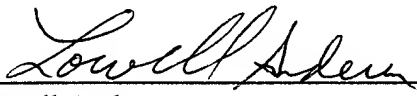
motion components (L, T) with selectable mutual phases (0°, 180°, 190°).

The references listed herein, when taken alone or in combination are not believed to disclose nor make obvious the invention as claimed in the subject application.

As this Information Disclosure Statement is being submitted before the stipulated three months from the filing date of the application and/or before the mailing of a first Office Action, it is believed that no fee is required. If a fee is required, please charge Account Number 19-4330.

Respectfully submitted,

Dated: \_\_\_\_\_  
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